

Please delete Fig. 5B and replace with new Fig. 5B attached hereto.

In the specification:

Please delete the paragraph of the specification beginning at page 9, line 1 and replace it with the following rewritten paragraph:

A₁

--The syringe 22 includes an exterior cylindrical barrel or body 32, which at its forward end is integral with a conical front wall section 36. A neck 38, terminating in discharge tip 34, extends forwardly from and is integral with the front wall 36. The body 22 of the syringe snugly engages the interior walls of the pressure jacket 30. This syringe 22 includes a syringe mating section 29, preferably in the form of a radially outwardly extending annular flange, which is positioned in a plane perpendicular to the axis of and integral with the rear end of the cylindrical body of the syringe. The syringe mating section is arranged, when the syringe is located within the pressure jacket, to align with cooperating mating sections 25 located on the rear end of the pressure jacket. In this manner, the syringe and pressure jacket mating sections 29, 25 facilitate the connection of the syringe 22 to the injector 10.--

Please delete the paragraph of the specification beginning at page 9, line 21 and replace it with the following rewritten paragraph:

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--Referring now to Fig. 2, the syringe plunger 26 can be seen more clearly within the cylindrical barrel 32 of the syringe 22. The syringe plunger 26 is attached to the plunger drive ram 28 of the injector 10. The plunger drive ram 28 is driven by a motor 27 to deploy the plunger drive ram 28 and syringe plunger 26 in a forward or

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A2 rearward motion along the axis of symmetry 23 of the syringe cavity 42 to inject fluid into an animal subject or fill the syringe with fluid, respectively. As illustrated in Figs. 2-4C, the end of the drive ram 28 proximate to the syringe plunger 26 is provided with a cavity, open at its front, in which is positioned the coupling mechanism 46 (Fig. 4A).--

Please delete the paragraph of the specification beginning at page 10, line 8 and replace it with the following rewritten paragraph:

A3 --Fig. 2 depicts, in engaged relationship, the coupling element 44 of the syringe plunger 26 and the coupling mechanism 46 of the plunger drive ram 28. Once the coupling mechanisms 44 and 46 are engaged, the syringe plunger 26 can be moved rearwardly by the plunger drive ram 28 under force of the injector motor 27 when it is desired to retract the syringe plunger, such as when filling the syringe.--

In the claims:

Please amend claims 1, 4, 8, and 9 as follows:

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A4 1. (Amended) A syringe for mounting to an injector for injecting fluids into an animal subject, said syringe comprising:
a cylindrical barrel;
a plunger snugly slidable in said cylindrical barrel, said plunger having a rearwardly facing drive ram engaging coupling element thereon in the shape of a rearwardly facing extension exhibiting no discontinuity in its transverse cross-sections along a portion of said extension adapted to be gripped by a coupling mechanism; and